



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Applicant: Shuo-Yen Robert Li §  
§  
§  
Confirmation No.: 8436 § Group Art Unit: 8436  
§  
Application No.: 09/882,317 § Examiner: Anthony T. Ton  
§  
Filing Date: June 15, 2001 § Attorney Docket No.: 681954-106US  
§  
Title: SELF-ROUTING DEVICE FOR SWITCHING PACKETS OF DIFFERENT LENGTHS

**STATEMENT UNDER 37 CFR §3.73(b)**

Industrial Technology Research Institute, a corporation, states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is \_\_\_\_\_ % in the patent/application identified above by virtue of either:
  - An assignment from the inventor(s) of the patent/application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_, Frame \_\_\_\_, a copy thereof is attached.

OR

- A chain of title from the inventor, of the application identified above, to the current assignee as shown below:
  1. From: Shuo-Yen Robert Li To: E-Comm, Inc.  
The document was recorded in the Patent and Trademark Office at Reel 011912, Frame 0584.
  2. From: Ecomm, Inc. To: Industrial Technology Research Institute  
The Assignment was executed on September 9, 2004 and submitted for recordation to the Patent and Trademark Office on October 8, 2004. A copy of the executed Assignment is attached.
  3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, a copy thereof is attached

- Additional documents in the chain of title are listed on a supplemental sheet.
- Copies of assignments or other documents in the chain of title are attached.

The undersigned attorney of record is empowered to sign this statement on behalf of the assignee.

April 18, 2005  
Date

Martin G. Belisario  
**MARTIN G. BELISARIO**  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**GENERAL REVOCATION AND POWER OF ATTORNEY TO PROSECUTE PATENT APPLICATIONS BEFORE THE U.S. PATENT AND TRADEMARK OFFICE**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR § 3.73(b).

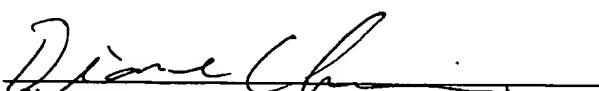
Industrial Technology Research Institute, having an address of, Bldg. 51, 195 Chung Hsing Road, Sec. 4, Chutung, Hsinchu, Taiwan, R.O.C., by its undersigned representative, hereby appoints the registered attorneys and agents associated with Customer No. 000570 as its attorneys/agents with full power of substitution and revocation to represent Industrial Technology Research Institute before the U.S. Patent and Trademark Office ("USPTO") in connection with any and all patent applications assigned only to Industrial Technology Research Institute according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

The undersigned states that he/she is authorized and empowered to sign this document on behalf of Industrial Technology Research Institute.

Please address all correspondence to Customer No. 000570, namely, **AKIN GUMP STRAUSS HAUER & FELD LLP**, One Commerce Square, 2005 Market Street, Suite 2200, Philadelphia, PA 19103. Please direct all communications and telephone calls to William W. Schwarze at (215) 965-1270 (telephone) or (215) 965-1210 (facsimile).

Respectfully submitted,

April 11, 2005  
Date

  
Signature  
Diane Chen

Typed or Printed Name  
Deputy Director of Patent Management Div.

Title



Docket No.: ITRI

## RECORDATION FORM COVER SHEET

**U.S. DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

## **PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): <b>Ecomm, Inc.</b>		2. Name and address of receiving party(ies):  Name: <u>Industrial Technology Research Institute</u> Address: <u>C100 Technology Transfer and Services Center</u> <u>Bldg. 51, No. 195</u> <u>Sec. 4 Chung-Hsing Road Chutung</u>	
Additional names(s) of conveying party(ies) _____ <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____		City: <u>Hsinchu</u> State/Prov.: _____ Country: <u>TAIWAN, R.O.C.</u> ZIP: <u>310</u>	
Execution Date: <u>September 9, 2004</u>		Additional name(s) & address(es) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Application number(s) or patent numbers(s):  If this document is being filed together with a new application, the execution date of the application is: _____			
Patent Application No. _____ Filing date _____		B. Patent No.(s)	
See Attached Schedule A		<u>Additional numbers</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: <u>Lawrence D. Eisen</u> Registration No. <u>41,009</u> Address: <u>SHAW PITTMAN LLP</u> <u>1650 Tysons Boulevard</u>		6. Total number of applications and patents involved: <u>23</u>	
City: <u>McLean</u> State/Prov.: <u>VA</u>		7. Total fee (37 CFR 3.41): .....\$ <u>920.00</u>	
Country: <u>USA</u> ZIP: <u>22102</u>		<input type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
8. Deposit account number:  <u>50-1390</u>			
(Attach duplicate copy of this page if paying by deposit account)			

**DO NOT USE THIS SPACE**

### **9. Statement and signature.**

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

**Lawrence D. Eisen, Reg. No. 41,009**

**Name of Person Signing**

### Signature

**October 8, 2004**

## ASSIGNMENT

IN CONSIDERATION of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, **Ecomm, Inc.**, of the Cayman Islands (a.k.a. E-Comm, Ltd.), its successors, assigns and legal representatives (hereinafter collectively **Ecomm**), intending to be legally bound:

HEREBY sells, assigns and transfers to Industrial Technology Research Institute (hereinafter **ITRI**), of Chutung, Hsinchu, Taiwan, R.O.C., the entire right, title and interest in and to those inventions identified in those United States patent applications and patents, which are identified in Schedule A attached to this ASSIGNMENT; in and to those applications and patents; in and to all divisional, continuation, substitute, renewal, reissue, and all other corresponding applications for Patent which have been or shall be filed in the United States and all other foreign countries; in and to the improvements of those inventions; in and to the right to claim in any countries the right of priority from those applications and patents under international law or under the laws of any particular country (such as, without limitation, the right of priority provided by the International Convention for the Protection of Industrial Property, as amended); and in and to all original and reissued patents which have been or shall be issued in the United States and all other foreign countries on those improvements;

COVENANTS with **ITRI** that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed have been made to others by **Ecomm**, and that full right to convey the same as herein expressed is possessed by **Ecomm**;

COVENANTS AND AGREES to assist and cooperate with **ITRI** in the preparation and prosecution of any applications of those inventions and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any applications or Patent of those inventions and further to execute and deliver to **ITRI** any and all additional papers that may be requested by **ITRI** for the purpose of implementing the terms of this ASSIGNMENT;

AUTHORIZES AND REQUESTS that any and all patents for those inventions be issued to **ITRI** in the United States and in all other foreign countries, or to such nominees as **ITRI** may designate, as the Assignee of **ITRI**'s entire right, title, and interest; and

CONSENTS that a copy of this ASSIGNMENT shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any particular country for any purpose and more particularly in proof of the right of ITRI to apply for patent or other form of protection for those inventions and to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended.

Ecomm, Inc.

Signature: Robert Hsieh  
Date: August 9, 2004  
Name: Robert Hsieh  
Title: Chief Executive Officer

## Schedule A

Filing Date	Title	Inventors	Application Number	Publication Number	Patent Number
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE COMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,104	US 2002-00311121 A1	
06-15-01	CONFIGURING EQUIVALENT MULTI-STAGE INTERCONNECTION NETWORKS IN THE BIT-PERMUTING STYLE	Shuo-Yen Robert Li (李碩彥) Lu Wa Chiang (林格樺)	09/882,113	US 2002-00311118 A1	
06-15-01	SWITCHING CONCENTRATOR	Shuo-Yen Robert Li (李碩彥)	09/882,439	US 2001-0055304 A1	
06-15-01	SELF-ROUTING DEVICE FOR SWITCHING PACKETS OF DIFFERENT LENGTHS	Shuo-Yen Robert Li (李碩彥)	09/882,317	US 2001-0053157 A1	
06-15-01	PACKET SWITCH WITH ONE-STOP BUFFER IN MEMORY WITH MASSIVE PARALLEL ACCESS	Shuo-Yen Robert Li (李碩彥) Jian Zhu (朱鍾)	09/882,760	US 2001-0055304 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE DECOMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,133	US 2003-0063602 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE EXPANDER TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,087	US 2002-0039363 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED COMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,761	US 2002-0094151 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED DECOMPRESSOR TYPE	Shuo-Yen Robert Li (李碩彥)	09/881,827	US 2002-0031117 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UPTURNED EXPANDER TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,129	US 2002-0031110 A1	

Filing Date	Title	Inventors	Application Number	Publication Number	Patent Number
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE CIRCULAR-UNIMODAL TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,099	US 2002-0037005 A1	
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE UNIMODAL-CIRCULAR TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,202	US 2002-0027904 A1	6,657,998
06-15-01	CONDITIONALLY NONBLOCKING SWITCH OF THE CIRCULAR EXPANDER TYPE	Shuo-Yen Robert Li (李碩彥)	09/882,139	US 2003-0086420 A1	
06-15-01	GENERALIZED DIVIDE-AND-CONQUER NETWORKS	Shuo-Yen Robert Li (李碩彥)	09/882,423	US 2002-0097714 A1	
06-15-01	GENERAL SELF-ROUTING CONTROL MECHANISM OVER BIT-PERMUTING SWITCHING NETWORKS	Shuo-Yen Robert Li (李碩彥)	09/882,005	US 2002-0051447 A1	
06-15-01	SELF-ROUTING CONTROL MECHANISM OVER MULTISTAGE INTERCONNECTION NETWORKS OF CONCENTRATORS	Shuo-Yen Robert Li (李碩彥)	09/882,328	US 2002-0118677 A1	
06-15-01	MULTICAST CONCENTRATORS	Shuo-Yen Robert Li (李碩彥)	09/882,413	US 2003-0053456 A1	
06-15-01	GENERAL SELF-ROUTING MECHANISM FOR MULTICASTING CONTROL OVER BIT-PERMUTING SWITCHING NETWORKS	Shuo-Yen Robert Li (李碩彥)	09/882,075	US 2002-0024951 A1	
06-15-01	PHYSICAL IMPLEMENTATION OF SWITCHING FABRICS CONSTRUCTED FROM RECURSIVE 2-STAGE INTERCONNECTION	Shuo-Yen Robert Li (李碩彥)	09/882,410	US 2002-0093950 A1	
06-15-01	ROUTING SCHEMES FOR PACKET SWITCHING NETWORKS	Shuo-Yen Robert Li (李碩彥) Jian Zhu (朱鍾) Chu Man Lau (劉主民)	09/881,870	US 2004-0066799 A1	

Filing Date	Title	Inventors	Application Number	Publication Number	Patent Number
		Wan Lam (林鑑聰)			
06-15-01	MULTISTAGE INTERCONNECTION NETWORKS OF MULTICAST CONCENTRATORS WITH SELF-ROUTING CONTROL MECHANISM	Shuo-Yen Robert Li (李碩彦)	09/882,112	US 2002-0031124 A1	
02-23-02	SCALABLE 2-STAGE INTERCONNECTIONS	Jian Zhu (朱鍵) Shuo-Yen Robert Li (李碩彦) Lu Wa Chiang (路偉強)	10/082,449	US 2003-0112797 A1	
02-23-02	OPTIMIZING SWITCHING ELEMENT FOR MINIMAL LATENCY	Jian Zhu (朱鍵) Shuo-Yen Robert Li (李碩彦)	10/082,450	US 2003-0118054 A1	